

IFW

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the below date:  
Date: May 27, 2005 Name: K. Shannon Mrksich, Ph.D. Signature: S. Mrksich

BRINKS  
HOFFER  
GILSON  
& LIONE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Appln. of: RUSTEM F. ISMAGILOV et al.

Appln. No.: 10/765,718

Filed: January 26, 2004

For: DEVICE AND METHOD FOR PRESSURE-  
DRIVEN PLUG TRANSPORT AND  
REACTION

Examiner:

Art Unit: 1765

Attorney Docket No: 7814/95

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL

Sir:

Attached is/are:

- ☒ Power of Attorney  
☒ Return Receipt Postcard

Fee calculation:

- ☒ No additional fee is required.  
☐ Small Entity.  
☐ An extension fee in an amount of \$\_\_\_\_\_ for a \_\_\_\_\_-month extension of time under 37 C.F.R. § 1.136(a).  
☐ A petition or processing fee in an amount of \$\_\_\_\_\_ under 37 C.F.R. § 1.17(\_\_\_\_).  
☐ An additional filing fee has been calculated as shown below:

					Small Entity			Not a Small Entity	
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra	Rate	Add'l Fee	or	Rate	Add'l Fee
Total		Minus			x \$25=			x \$50=	
Indep.		Minus			x 100=			x \$200=	
First Presentation of Multiple Dep. Claim					+\$180=			+\$360=	
					Total	\$		Total	\$

Fee payment:

- ☒ A check in the amount of \$\_\_\_\_\_ is enclosed.  
☐ Please charge Deposit Account No. 23-1925 in the amount of \$\_\_\_\_\_. A copy of this Transmittal is enclosed for this purpose.  
☐ Payment by credit card in the amount of \$\_\_\_\_\_ (Form PTO-2038 is attached).  
☒ The Director is hereby authorized to charge payment of any additional filing fees required under 37 CFR § 1.16 and any patent application processing fees under 37 CFR § 1.17 associated with this paper (including any extension fee required to ensure that this paper is timely filed), or to credit any overpayment, to Deposit Account No. 23-1925.

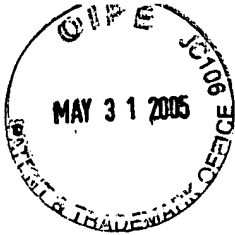
Respectfully submitted,

May 27, 2005

Date

S. Mrksich

K. Shannon Mrksich, PH.D. (Reg. No. 36,675)



Inventors: RUSTEM F. ISMAGILOV et al.

Title of Appln.: DEVICE AND METHOD FOR PRESSURE-DRIVEN PLUG  
TRANSPORT AND REACTION

**POWER OF ATTORNEY BY ASSIGNEE  
AND CORRESPONDENCE ADDRESS INDICATION**

The specification of the above-identified patent application:

- ☐ is attached hereto.  
☒ was filed on January 26, 2004 as U.S. application No. 10/765,718

University of Chicago, a not for profit organization organized under the laws of the State of Illinois, ("ASSIGNEE") certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of either:

- ☒ An assignment from the inventor(s) of the patent application identified above, a copy of which was recorded in the Patent and Trademark Office at Reel , frame , or a copy thereof is attached; OR  
☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:
1. From to .  
The document was recorded in the Patent and Trademark Office at Reel , Frame , or a copy thereof is attached.
  2. From to .  
The document was recorded in the Patent and Trademark Office at Reel , Frame , or a copy of which is attached.
- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

ASSIGNEE hereby revokes all previously granted powers of attorney in the above identified patent application and appoints the Practitioners associated with the following Customer Number as its attorneys, with full power of substitution and revocation, to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent(s), to transact all business in the United States Patent and Trademark Office connected therewith, and to act on ASSIGNEE'S behalf before the competent International Authorities in connection with any and all international applications filed by ASSIGNEE:

**Customer No. 00757 - Brinks Hofer Gilson Lione**

Please recognize or change the correspondence address for this application to the address associated with the above-mentioned Customer Number. Please direct all telephonic and facsimile communications to:

K. Shannon Mrksich, Ph.D.  
Tel.: (312) 321-4200; Fax: (312) 321-4299

The undersigned hereby authorizes the Practitioners associated with the above Customer Number to accept and follow instructions from Alan Thomas as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the Practitioners and the undersigned. In the event of a change in the persons from whom instructions may be taken, the Practitioners will be so notified by the undersigned.

The undersigned (whose title is supplied below) is empowered to act on behalf of ASSIGNEE.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature [Signature] Date: 5/26/05  
Name: Alan Thomas  
Title: DIRECTOR, Office of Technology & Intellectual Property

ASSIGNMENT

WHEREAS, Rustem F. Ismagilov, Joshua David Tice, Cory J. Gerdtz, and Bo Zheng, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled DEVICE AND METHOD FOR PRESSURE-DRIVEN PLUG TRANSPORT AND REACTION, for a full description of which reference is here made to an application for Letters Patent of the United States filed on January 26, 2004, and assigned Application Serial No. 10/765,718;

WHEREAS, THE UNIVERSITY OF CHICAGO, a not-for-profit organization existing under the laws of the State of Illinois, having a place of business at 5640 South Ellis Avenue, Suite 405, Chicago, IL 60637, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in

vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED: Aug. 23, 2004

Rustem F. Ismagilov  
Rustem F. Ismagilov

DATED: August 30, 2004

Joshua David Tice  
Joshua David Tice

DATED: 8/23/04

Cory J. Gerds  
Cory J. Gerds

DATED: Aug. 23, 2004

Bo Zheng  
Bo Zheng

STATE OF Illinois )  
COUNTY OF Cook ) ss.

I, Carmen Diab, A Notary Public in and for the County and State aforesaid, do hereby certify that Rustem F. Ismagilov, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

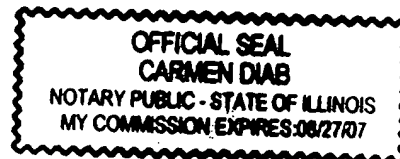
IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 23rd day of August, 2004.

Carmen Diab

Notary Public

My Commission Expires: 8/27/07

STATE OF Illinois )  
COUNTY OF Cook ) ss.



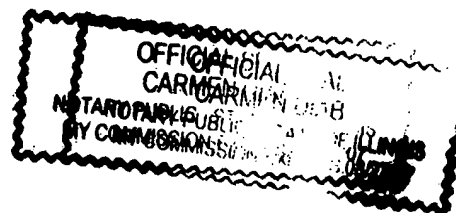
I, Carmen Diab, A Notary Public in and for the County and State aforesaid, do hereby certify that Joshua David Tice, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 30th day of August, 2004.

Carmen Diab

Notary Public

My Commission Expires: 8/27/07



STATE OF Illinois )  
 ) ss.  
COUNTY OF Cook )

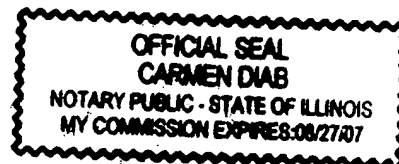
I, Carmen Diab, A Notary Public in and for the County and State aforesaid, do hereby certify that Cory J. Gerds, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 23rd day of August, 2004.

Carmen Diab  
Notary Public

My Commission Expires: 8/27/07

STATE OF Illinois )  
 ) ss.  
COUNTY OF Cook )



I, Carmen Diab, A Notary Public in and for the County and State aforesaid, do hereby certify that Bo Zheng, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 23rd day of August, 2004.

Carmen Diab  
Notary Public

My Commission Expires: 8/27/07




I hereby claim the benefit under 35 U.S.C. §120 of any United States applications(s), or §365(c) of any PCT International Application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

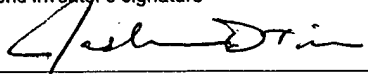
<u>10/434,970</u>	<u>05/09/2003</u>	<u>pending</u>
(Application Serial No.)	(Filing Date, MM/DD/YYYY)	(Status: patented, pending, abandoned)

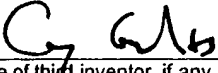
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(Application Serial No.)	(Filing Date, MM/DD/YYYY)	(Status: patented, pending, abandoned)

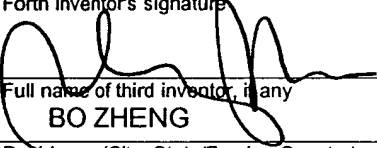
_____	_____	_____
(Application Serial No.)	(Filing Date, MM/DD/YYYY)	(Status: patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Sole or first inventor's signature	Date
	<u>Aug. 23, 2004</u>
Full name of sole or first inventor	
RUSTEM F. ISMAGLIOV	
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Citizenship	
Russia	
Mailing Address	
1700 E. 56th St., Apt. 2804, Chicago, Illinois 60637	

Second inventor's signature	Date
	<u>August 20, 2004</u>
Full name of second inventor, if any	
JOSHUA DAVID TICE	
Residence (City, State/Foreign Country)	
5640 S. Maryland Ave., floor #2, Chicago, IL 60637	
Citizenship	
US	
Mailing Address	
5640 S. Maryland Ave., floor #2, Chicago, IL 60637	

Third inventor's signature 	Date 8/23/04
Full name of third inventor, if any CORY JOHN GERDTS	
Residence (City, State/Foreign Country) 5050 S. Lake Shore Drive, Apt. 310 South, Chicago, IL 60615	
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Mailing Address 5050 S. Lake Shore Drive, Apt. 310 South, Chicago, IL 60615	

Fourth inventor's signature 	Date Aug. 23, 2004
Full name of third inventor, if any BO ZHENG	
Residence (City, State/Foreign Country) 1401 E. 55 <sup>th</sup> St., Apt. 508N, Chicago, IL 60615	
Citizenship China	
Mailing Address 1401 E. 55 <sup>th</sup> St., Apt. 508N, Chicago, IL 60615	